

BRILLIANCE PHOTOTHERAPY

EFFECTIVE • INTENSIVE • SLEEK



PHOENIX
Total Maternal and Infant Care

PHOENIX

BRILLIANCE PHOTOTHERAPY

Brilliance is an affordable world-class phototherapy treatment device to treat newborns with severe jaundice. Our key technical innovation is utilizing strategically-located, high-intensity blue LEDs to enable effective treatment with minimal power consumption. Brilliance outperforms state-of-the-art LED devices and was designed through a partnership between Design Revolution (California, USA) and Phoenix Medical Systems



Performance:

| | |
|--------------------------|--|
| Lamp type: | Light emitting diode (LED) for 30,000 hours providing the same intensity level (12 LED). |
| Peak spectral irradiance | > 40 $\mu\text{W}/\text{cm}^2/\text{nm}$ at recommended treatment distance measured with Ohmeda Medical BiliBlanket II Meter |
| Peak wavelength | 451 nm |
| Wavelength spectrum | 430 – 490 nm (maximum bounds of FWHM range) |
| Effective surface area | 500 mm x 250 mm at recommended treatment distance |
| Irradiance ratio | > 0.4 (minimum /maximum irradiance) |
| Time totalizer | Machine run time totalizer Infant therapy time totalizer. |
| Cooling fan | Not required System design inherently dissipates heat from LED's |
| Safety feature | Over temperature cut off is provided |

Physical Specifications:

| | |
|--------------------------------|--|
| Overall Dimensions | 168.5 cm (H) x 71 cm (W) x 71 cm (D) |
| Light Unit Dimensions | 57.5 cm (L) x 36 cm (W) x 7 cm (D) |
| Total Unit Mass | < 20 kg |
| Footprint of Stand | 71 cm (L) x 71 cm (w) x 13 cm (D) |
| Height of base | < 7.5 cm |
| Castors | 2" castors, Lockable |
| Height adjustment range | 110 cm – 160 cm (distance between bottom surface and ground) |
| Recommended treatment distance | 35 cm |

Electrical Specifications:

| | | |
|-----------------------|-----------|-----------------|
| Electrical supply | Voltage | 100 – 240 VAC ~ |
| | Frequency | 50/60 Hz |
| Max power consumption | | 25 W |

Every Brilliance phototherapy comes with:

- User manual (Qty: 1)
- Fuses (Qty: 2)
- Power Cord (Qty: 1)

Call us toll free :

1 800 425 3503



Phoenix Medical Systems Private Limited

No. 32/4, Jawaharlal Nehru Salai, Ekkattuthangal, Chennai 600 032, India.
Tel.: 91-44-2225 1177, 2225 1178 Fax : 91-44-2225 0194

✉ : sales@pmsind.com

🌐 : phoenixmedicalsystems.com

Environmental Specifications:

Operating:

| | |
|----------------------|-----------------------------|
| Ambient Temperature | +10°C to +35°C |
| Humidity | 0% to 90% RH non-condensing |
| Atmospheric Pressure | 70 kPa to 106 kPa |

Transport and Storage:

| | |
|----------------------|-----------------------------|
| Ambient Temperature | 0°C to +50°C |
| Humidity | 0% to 90% RH non-condensing |
| Atmospheric Pressure | 50 kPa to 106 kPa |

Electrical Classification

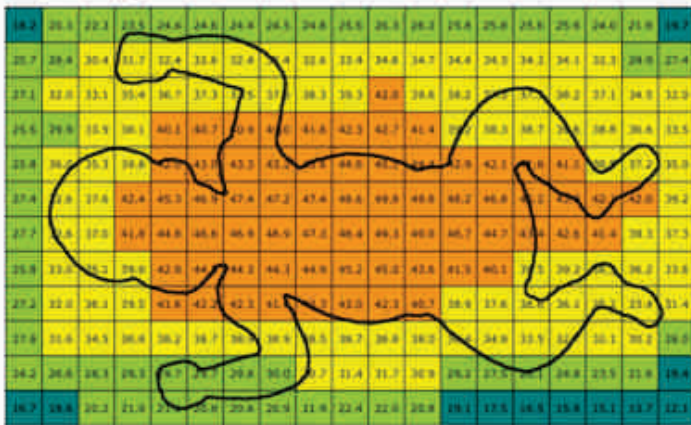
| | |
|---|-------------|
| Type of protection against electrical shock | IEC Class 1 |
| Degree of protection against electrical shock | Type B |
| Mode of operation | Continuous |

The two diagrams below present the results of bench top tests conducted at the Neonatal and Developmental Medicine Laboratory at Stanford University. The tests evaluated the *in vitro* efficacy and performance of Brilliance for pre-term and term infants.

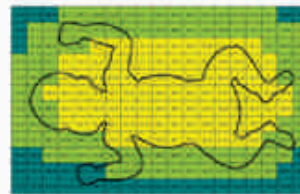
Comparative Irradiance Footprint



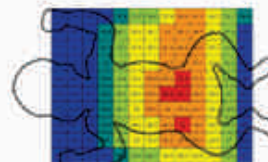
Scale: 1 square = 1 in²



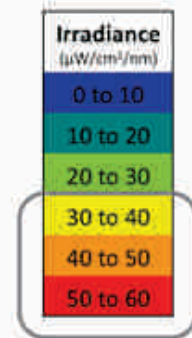
Brilliance



Natus neoBLUE



GE Bilisoft



American Academy of Pediatrics (AAP) intensive Phototherapy standard:
≥ 30 µW/cm²/nm

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